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L4: Entry 10 of 17

File: USPT

Feb 19, 1991

US-PAT-NO: 4994269

DOCUMENT-IDENTIFIER: US 4994269 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Topical use of antibodies for prevention or treatment of pseudomonas infections

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DATE-ISSUED: February 19, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; Michael <u>S.</u>	Pinole	CA		
Mehton; Nirmal <u>S.</u>	Richmond	CA		

US-CL-CURRENT: 424/150.1; 424/142.1, 424/170.1, 424/808, 435/253.3

## CLAIMS:

We claim:

1. A method of preventing infection of Pseudomonas aeruginosa bacteria in a mammal, the method of comprising the topical application of antibodies capable of binding to an antigen of the Pseudomonas aeruginosa bacteria prior to exposure to the bacteria by the mammal, the antibodies being of the IgM or IgG type and the amount of antibodies being sufficient to provide prophylactic protection against the bacteria.

2. The method of claim 1 wherein the antibodies are selected from monoclonal antibodies, an immune serum globulin and a high titer Pseudomonas aeruginosa immune serum globulin.

3. The method of claim 2 wherein the Pseudomonas aeruginosa immune serum globulin has an antibody titer of at least 1:1600 against Pseudomonas aeruginosa.

4. The method of claim 2 wherein the antibodies are administered intranasally to the mammal.

5. The method of claim 2 wherein the antibodies are administered in the form of an aerosol to the lungs of the mammal.

6. The method of claim 2 wherein the antibodies are plasma derived and administered at a dosage ranging from about 2 mg/kg to about 100 mg/kg of body weight of the mammal.

7. The method of claim 2 wherein the antibodies are monoclonal antibodies and administered at a dosage ranging from about 0.02 to about 1.0 mg/kg of body weight of the mammal.

8. The method of claim 2 wherein the immune serum globulins comprises an aqueous solution of antibodies having an antibody content ranging from about 0.5 to about 17% by weight of the solution.

9. The method of claim 1 wherein the antibodies are of the IgM type.
  10. The method of claim 1 wherein the antibodies are of the IgG type.
  11. The method of claim 1 wherein the antibodies of a mixture of antibodies of the IgM and IgG types.
  12. The method of claim 2 wherein the antibodies are administered via intratracheal administration means.
  13. The method of claim 8 wherein the antibody solution is prepared by reconstituting a freeze dried antibody preparation with a diluent.
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L4: Entry 8 of 17

File: USPT

Nov 21, 1995

US-PAT-NO: 5468484

DOCUMENT-IDENTIFIER: US 5468484 A

TITLE: Method of prevention of pseudomonas infection

DATE-ISSUED: November 21, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hodges; Robert S.	Edmonton			CA
Irvin; Randall T.	Sherwood Park			CA
Paranchych; William	Edmonton			CA
Sokol; Pamela A.	Calgary			CA
Woods; Donald E.	Calgary			CA

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
S.P.I. Synthetic Peptides Incorporated	Edmonton			CA		03

APPL-NO: 08/ 084739 [PALM]

DATE FILED: June 28, 1993

## PARENT-CASE:

This application is a continuation-in-part of U.S. patent application U.S. Ser. No. 721,759, filed Jun. 25, 1991, now U.S. Pat. No. 5,223,604.

INT-CL: [06] A61 K 39/395, A61 K 39/40, C07 K 15/28, C12 P 21/08

US-CL-ISSUED: 424/141.1; 424/134.1, 424/139.1, 424/150.1, 424/169.1, 424/170.1, 424/152.1, 530/300, 530/327, 530/387.1, 530/387.9, 530/388.1, 530/388.2, 530/388.4

US-CL-CURRENT: 424/141.1; 424/134.1, 424/139.1, 424/150.1, 424/152.1, 424/169.1, 424/170.1, 530/300, 530/327, 530/387.1, 530/387.9, 530/388.1, 530/388.2, 530/388.4

FIELD-OF-SEARCH: 424/85.8, 424/134, 424/139.1, 424/141.1, 424/150.1, 424/164.1, 424/170.1, 530/387.1, 530/387.9, 530/388.1, 530/300, 530/327

## PRIOR-ART-DISCLOSED:

## OTHER PUBLICATIONS

Pavlovskis et al, Medical Microbiology 1:97-128, 1982.

Coburn, Curr Top Microbiolog &amp; Immunology 175; 133-141, 1992.

Holder, Serodiagnosis &amp; Immuno Therapy 2: 7-16 1988.

Nicas et al, The Journal of Infetious Diseases 152:716-721, 1985. The role of Exoenzymes.

Lingwood et al, Biochemical &amp; Biophysical Res &amp; Comm 175: 1076-1081, 1991 (Mar.)

Glycolipid Receptor Binding Specificity of Exoenzyme S from Pseudomonas Aeruginosa.

Woods et al. Evr. J. Clin. Microbiol 4:163-169, 1985.

Infections With Pseudomonas Aeruginosa.

Ramphal et al, Infection and Immunity 58:600-603 1987.

Baker et al., Infection and Immunity 58:2361-2366 1990, Glycosphingulipid Receptors for Pseudomonas Aeruginosu.

ART-UNIT: 183

PRIMARY-EXAMINER: Sidberry; Hazel F.

ATTY-AGENT-FIRM: Dehlinger; Peter J. Stratford; Carol A.

ABSTRACT:

The invention described includes methods and compositions useful in preventing infection by Pseudomonas aeruginosa and related organisms. Diclosed is a peptide having the sequence corresponding to an antigenic site in the protein exoenzyme S which is antigenically similar to a C-terminal portion of the Pseudomonas aeruginosa pilin protein. The peptide is cross-reactive with surface peptides present in certain bacterial and fungal microorganisms, and is effective in inhibiting binding of such organisms to target epithelial cells. The peptide may also be employed in a vaccine composition, for producing immunity against Pseudomonas aeruginosa as well as against such cross-reactive microorganisms.

3 Claims, 13 Drawing figures

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File: USPT

Nov 21, 1995

US-PAT-NO: 5468484

DOCUMENT-IDENTIFIER: US 5468484 A

TITLE: Method of prevention of pseudomonas infection

~~DATE-ISSUED: November 21, 1995~~

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hodges; Robert S.	Edmonton			CA
Irvin; Randall T.	Sherwood Park			CA
Paranchych; William	Edmonton			CA
Sokol; Pamela A.	Calgary			CA
Woods; Donald E.	Calgary			CA

US-CL-CURRENT: 424/141.1; 424/134.1, 424/139.1, 424/150.1, 424/152.1, 424/169.1,  
424/170.1, 530/300, 530/327, 530/387.1 , 530/387.9, 530/388.1, 530/388.2, 530/388.4

## CLAIMS:

It is claimed:

1. A method of preventing infection by *Pseudomonas aeruginosa* in a subject, comprising

administering to the subject a monoclonal antibody characterized by immunoreactivity with an Exo S peptide epitope formed by the sequence SEQ ID NO: 2 (C A T T A T G P N G S C), and by immunoreactivity with a *Pseudomonas* pilin peptide selected from the group consisting of SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9 and SEQ ID NO: 10.

2. The method of claim 1, wherein the antibody is further characterized by ability to inhibit binding of *Pseudomonas aeruginosa* to a human epithelial cell.

3. The method of claim 1, wherein the peptide epitope has the sequence SEQ ID NO: 2 (C A T T A T G P N G S C).

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L4: Entry 1 of 17

File: USPT

Mar 25, 2003

US-PAT-NO: 6537550

DOCUMENT-IDENTIFIER: US 6537550 B1

TITLE: Use of avian antibodies

DATE-ISSUED: March 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larsson; Anders	Vastra .ANG.gatan			SE
Kollberg; Hans	Skolgatan			SE

US-CL-CURRENT: 424/150.1; 424/130.1, 424/134.1, 424/137.1, 424/157.1, 424/164.1,  
424/170.1, 426/37, 426/47, 426/55, 435/253.3, 514/851, 530/387.1, 530/388.2,  
530/388.4, 530/389.1, 530/389.5, 530/423

## CLAIMS:

What is claimed is:

1. A method for preventing bacterial infection in a patient suffering from cystic fibrosis, who is not currently suffering from a bacterial infection of the lungs and bronchi, comprising: administering to said patient an amount of avian antibodies against antigens of said bacterial infection sufficient to prevent bacterial infection, wherein said administration is at the oral cavity and pharynx of the patient.
2. The method according to claim 1 wherein the avian antibodies are antibodies against Pseudomonas.
3. The method according to claim 2 wherein said avian antibodies are in a solution and said solution is administered by at least one of gargling and swallowing.
4. The method according to claim 3 wherein said solution is administered by gargling and then optionally swallowing.
5. The method according to claim 1 wherein said avian antibodies are in a solution and said solution is administered by at least one of gargling and swallowing.
6. The method according to claim 5 wherein said solution is administered by gargling and then optionally swallowing.

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JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

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<u>L4</u>	s ((424/170.1)!.CCLS. )	17	<u>L4</u>
<u>L3</u>	L2 and pseudomonas	123	<u>L3</u>
<u>L2</u>	((424/141.1)!.CCLS. )	476	<u>L2</u>
<u>L1</u>	424/170.1/ccls.	0	<u>L1</u>

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IBM Technical Disclosure Bulletins	▼

**Term:**

pcrv	▲
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DB=USPT; PLUR=YES; OP=AND

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L1: Entry 1 of 15

File: USPT

Oct 30, 2001

US-PAT-NO: 6309651

DOCUMENT-IDENTIFIER: US 6309651 B1

TITLE: Method of and compositions for immunization with the pseudomonas V antigen

DATE-ISSUED: October 30, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frank; Dara W.	West Allis	WI		
Yahr; Timothy L.	Hanover	NH		
Sawa; Teiji	San Francisco	CA		
Wiener-Kronish; Jeanine	San Francisco	CA		

US-CL-CURRENT: 424/260.1; 424/200.1, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 2. Document ID: US 6023468 A

L1: Entry 2 of 15

File: USPT

Feb 8, 2000

US-PAT-NO: 6023468

DOCUMENT-IDENTIFIER: US 6023468 A

TITLE: ATM cell spacing method and device therefor

DATE-ISSUED: February 8, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mouen-Makoua; David	Nanterre			FR
Dumas; Pierre	Sevres			FR

US-CL-CURRENT: 370/395.43

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 3. Document ID: US 5754612 A

L1: Entry 3 of 15

File: USPT

May 19, 1998

US-PAT-NO: 5754612

DOCUMENT-IDENTIFIER: US 5754612 A

TITLE: Joint for interfacing steel head closure and prestressed concrete reactor vessel

DATE-ISSUED: May 19, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gou; Perng-Fei	Saratoga	CA		
Sawyer; Craig Delany	Los Gatos	CA		
Rashid; Yusef Rashed	La Jolla	CA		

US-CL-CURRENT: 376/295; 376/205, 376/285, 376/289, 376/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC
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☐ 4. Document ID: US 5684848 A

L1: Entry 4 of 15

File: USPT

Nov 4, 1997

US-PAT-NO: 5684848

DOCUMENT-IDENTIFIER: US 5684848 A

TITLE: Nuclear reactor heat pipe

DATE-ISSUED: November 4, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gou; Perng-Fei	Saratoga	CA		
Fennern; Larry Edgar	San Jose	CA		
Sawyer; Craig Delany	Los Gatos	CA		

US-CL-CURRENT: 376/367; 165/104.26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC
Draw Desc	Image										

☐ 5. Document ID: US 5577085 A

L1: Entry 5 of 15

File: USPT

Nov 19, 1996

US-PAT-NO: 5577085

DOCUMENT-IDENTIFIER: US 5577085 A

TITLE: Boiling water reactor with compact containment and simplified safety systems

DATE-ISSUED: November 19, 1996

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gou; Perng-Fei	San Jose	CA		
Fennern; Larry E.	San Jose	CA		
Dillmann; Charles W.	San Jose	CA		
Sawyer; Craig D.	San Jose	CA		
Aburomia; Momtaz M.	San Jose	CA		
Relf; Charles W.	San Jose	CA		
Siewert; Mark W.	San Jose	CA		
Walther; John C.	San Jose	CA		

US-CL-CURRENT: 376/293; 376/206, 376/292, 376/294, 376/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 5225153 A

L1: Entry 6 of 15

File: USPT

Jul 6, 1993

US-PAT-NO: 5225153

DOCUMENT-IDENTIFIER: US 5225153 A

TITLE: Pebble-type high temperature gas reactor

DATE-ISSUED: July 6, 1993

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Masao	Kanagawa			JP
Hayakawa; Hitoshi	Tokyo			JP

US-CL-CURRENT: 376/381; 376/382, 376/385

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMMC

☐ 7. Document ID: US 5114667 A

L1: Entry 7 of 15

File: USPT

May 19, 1992

US-PAT-NO: 5114667

DOCUMENT-IDENTIFIER: US 5114667 A

TITLE: High temperature reactor having an improved fluid coolant circulation system

DATE-ISSUED: May 19, 1992

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Takao	Tokyo			JP
Osawa; Yasuo	Kure			JP

US-CL-CURRENT: 376/299; 376/381, 376/391, 376/393

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC

☐ 8. Document ID: US 4678626 A

L1: Entry 8 of 15

File: USPT

Jul 7, 1987

US-PAT-NO: 4678626

DOCUMENT-IDENTIFIER: US 4678626 A

TITLE: Radiant vessel auxiliary cooling system

DATE-ISSUED: July 7, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Germer; John H.	San Jose	CA		

US-CL-CURRENT: 376/298; 376/293, 376/299, 976/DIG.196

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC

☐ 9. Document ID: US 4666654 A

L1: Entry 9 of 15

File: USPT

May 19, 1987

US-PAT-NO: 4666654

DOCUMENT-IDENTIFIER: US 4666654 A

TITLE: Boiling water neutronic reactor incorporating a process inherent safety design

DATE-ISSUED: May 19, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Forsberg; Charles W.	Kingston	TN		

US-CL-CURRENT: 376/219; 376/247, 376/282, 976/DIG.148, 976/DIG.22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC

☐ 10. Document ID: US 4533513 A

L1: Entry 10 of 15

File: USPT

Aug 6, 1985

US-PAT-NO: 4533513

DOCUMENT-IDENTIFIER: US 4533513 A

TITLE: Enclosing means for housing a nuclear reactor core

DATE-ISSUED: August 6, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Norman; Hans	Vaster.ang.s			SE

US-CL-CURRENT: 376/260; 376/263, 376/285, 376/294, 376/296, 52/21, 52/223.2,  
976/DIG.184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L1: Entry 11 of 15

File: USPT

May 26, 1981

US-PAT-NO: 4269453

DOCUMENT-IDENTIFIER: US 4269453 A

TITLE: Brake pressure control valves

DATE-ISSUED: May 26, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sawyer; Patrick F.	Prestons			AU

US-CL-CURRENT: 303/9.63; 188/349

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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[KUMC](#)☐ 12. Document ID: US 4268353 A

L1: Entry 12 of 15

File: USPT

May 19, 1981

US-PAT-NO: 4268353

DOCUMENT-IDENTIFIER: US 4268353 A

TITLE: Demountable externally anchored low-stress magnet system and related method

DATE-ISSUED: May 19, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Powell; James	Wading River	NY		
Hsieh; Shih-Yung	Centereach	NY		
Lehner; John R.	Rocky Hill	CT		

US-CL-CURRENT: 376/142; 976/DIG.1

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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[KUMC](#)☐ 13. Document ID: US 4265066 A

L1: Entry 13 of 15

File: USPT

May 5, 1981

US-PAT-NO: 4265066  
DOCUMENT-IDENTIFIER: US 4265066 A  
TITLE: Prestressed concrete pressure vessels  
DATE-ISSUED: May 5, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lin; Tung-Yen	El Cerrito	CA		
Yang; Yue-Chyou	San Francisco	CA		
Chow; Philip Y.	Orinda	CA		

US-CL-CURRENT: 52/223.2; 376/296; 976/DIG.184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 14. Document ID: US 4188232 A

L1: Entry 14 of 15

File: USPT

Feb 12, 1980

US-PAT-NO: 4188232  
DOCUMENT-IDENTIFIER: US 4188232 A  
TITLE: Mini-aggregate iron ore in cement matrix  
DATE-ISSUED: February 12, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hall; William C.	Central Valley	NY	10917	
Peterson; John M.	Rock Tavern	NY	12575	

US-CL-CURRENT: 106/644; 106/733

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 15. Document ID: US 4032395 A

L1: Entry 15 of 15

File: USPT

Jun 28, 1977

US-PAT-NO: 4032395  
DOCUMENT-IDENTIFIER: US 4032395 A  
TITLE: Fuel leak detection apparatus for gas cooled nuclear reactors  
DATE-ISSUED: June 28, 1977

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burnette; Richard D.	San Diego	CA		

US-CL-CURRENT: 376/253; 250/380, 376/251, 376/314, 73/863.86, 73/864.73, 976/DIG.219, 976/DIG.224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
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